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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/940,415	08/28/2001	Steven Alan Cordes	YOR920000827US1	4360
7590 11/04/2004		EXAMINER		
THOMAS A. 1 26 ROCKLEDO			MCPHERSO	N, JOHN A
NEW MILFORD, CT 06776			ART UNIT	PAPER NUMBER
			1756	
			DATE MAILED: 11/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

-	Application No.	Applicant(s)			
Office Action Summer	09/940,415	CORDES ET AL.			
Office Action Summary	Examiner	Art Unit			
	John A. McPherson	1756			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	n the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. R. 1.136(a). In no event, however, may a represent thin the statutory minimum of thirty (iod will apply and will expire SIX (6) MONT).	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication.			
Status	6				
1) Responsive to communication(s) filed on 11	1 February 2004 and 19 July 20	<u>004</u> .			
2a) This action is FINAL . 2b) This action is non-final.					
3)☐ Since this application is in condition for allow closed in accordance with the practice under 3)☐ Since this application is in condition for allow	wance except for formal matter er <i>Ex parte Quayle</i> , 1935 C.D.	rs, prosecution as to the merits is 11, 453 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9) The specification is objected to by the Exami	ner.				
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to by	the Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	ection is required if the drawing(s) Examiner. Note the attached C	is objected to. See 37 CFR 1.121(d). Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119		3			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Appliority documents have been received (PCT Rule 17.2(a)).	lication No ceived in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date S. Patent and Trademark Office.	Paper No(s)/M	mary (PTO-413) lail Date mal Patent Application (PTO-152)			

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DETAILED ACTION

Response to Amendment

- 1. This Office Action is responsive to the Amendment to the specification filed 2/11/04 and the Amendment to the claims filed 7/19/04.
- 2. The Amendments filed 2/11/04 and 7/19/04 successfully overcome the objection and the rejection set forth in paragraphs 1 and "2", respectively, of the Office Action mailed 10/7/03 [note that paragraph "2" was not numbered in the previous Office Action]. Accordingly, the objection and the rejection are withdrawn.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by US 2001/0016924 to Yahiro (Yahiro) for the reasons of record as set forth in paragraph 3 of the Office Action mailed 10/7/03, and as further discussed below.

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4. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 11-168049 (JP '049) for the reasons of record as set forth in paragraph 4 of the Office Action mailed 10/7/03, and as further discussed below.

5. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,972,794 to Katakura et al. (Katakura) for the reasons of record as set forth in paragraph 5 of the Office Action mailed 10/7/03, and as further discussed below.

Response to Arguments

6. Applicant's arguments filed 2/11/04 have been fully considered but they are not persuasive.

With respect to the rejections over Yahiro, JP '049, and Katakura, Applicant argues that the prior art does not teach or suggest that the interface of the membrane layer member with the frame support is epitaxial. However, each of the applied references disclose forming a boron doped layer, corresponding to the membrane layer of the present invention, by doping the surface of a silicon wafer, corresponding to the frame member of the present invention. See paragraph [0036] of Yahiro, paragraph [0012] of JP '049 (based on an oral translation obtained by the Examiner), and column 4, lines 44-50 of Katakura. This is the same process utilized in the present invention to form the membrane layer so as to be epitaxially joined to the frame. See page 4, line 8 to page 5, line 3 and page 6, lines 8-11 of the present specification. Therefore, the

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boron doped layers of the applied prior art are similarly epitaxially joined to the silicon wafers from which they were formed.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. McPherson whose telephone number is (571) 272-1386. The examiner can normally be reached on Monday through Friday, 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John A. McPherson Primary Examiner Art Unit 1756

JAM 11/3/04